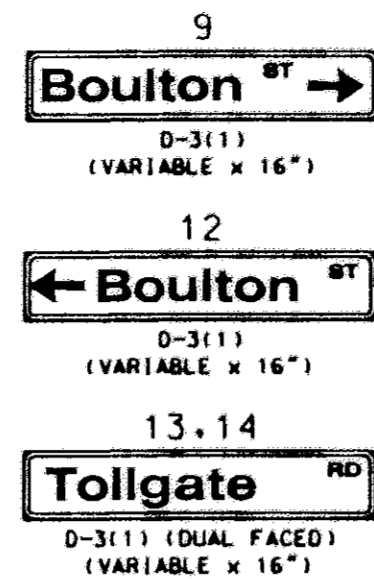
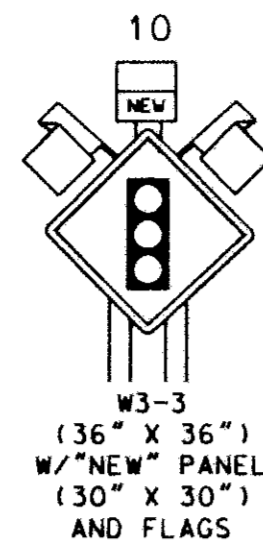


TOLLGATE ROAD IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

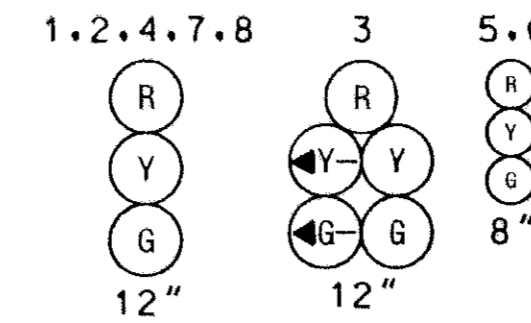
CONSTRUCTION DETAILS

- INSTALL 27 FT. STEEL POLE WITH A 70 FT. MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS, POLE MOUNTED CABINET AND CONTROLLER, CONTROL AND DISTRIBUTION EQUIPMENT, 3 FT. X 4 FT. X 4 IN. CONCRETE PAD, 15 FT. STREET LIGHTING ARM WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE AND CLEVIS AND 1 IN. GALVANIZED RISER. (INSTALL 1-2 IN. AND 2-3 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).
- INSTALL 3 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
- INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
- USE EXISTING HANDHOLE.
- USE EXISTING CONDUIT.
- INSTALL 6 FT. X 30 FT. (3-6-3 WINDING) QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.
- INSTALL MICROLOOP PROBE SET WITH 500 FT. LEAD-IN.
- INSTALL 6 FT. X 20 FT. (3-6-3 WINDING) QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.
- INSTALL W3-3 "SIGNAL AHEAD" SIGN (36 IN. X 36 IN.) WITH "NEW" PANEL AND FLAGS ON ONE 4 IN. X 6 IN. TREATED WOOD POST APPROXIMATELY 325 FT. IN ADVANCE OF THE INTERSECTION ON SOUTHBOUND TOLLGATE ROAD.

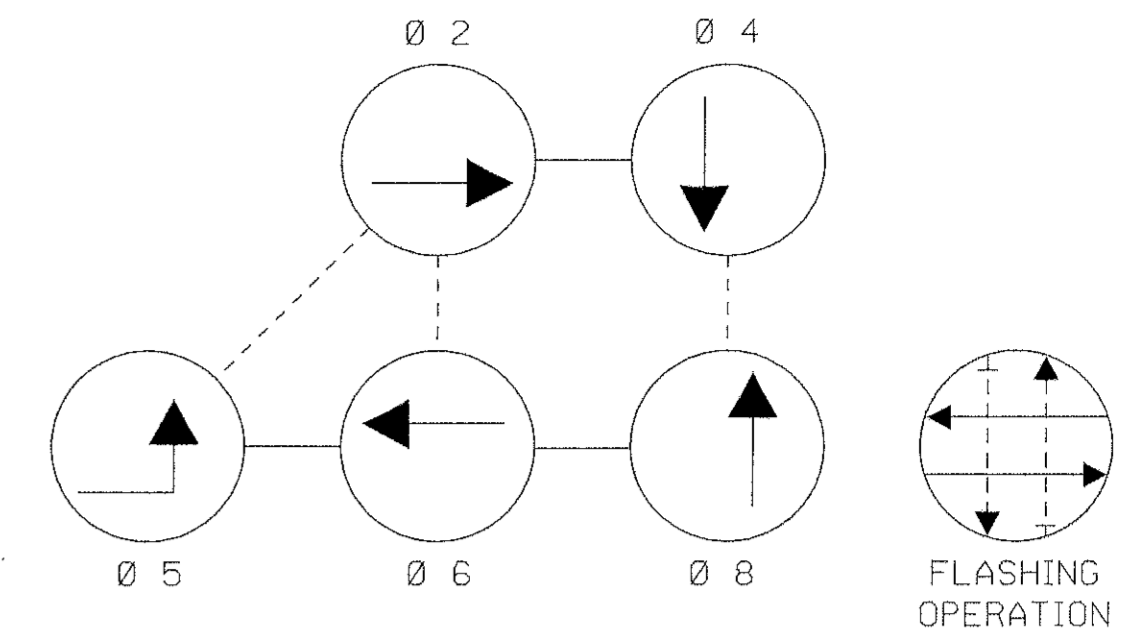
SIGNS



SIGNAL HEADS

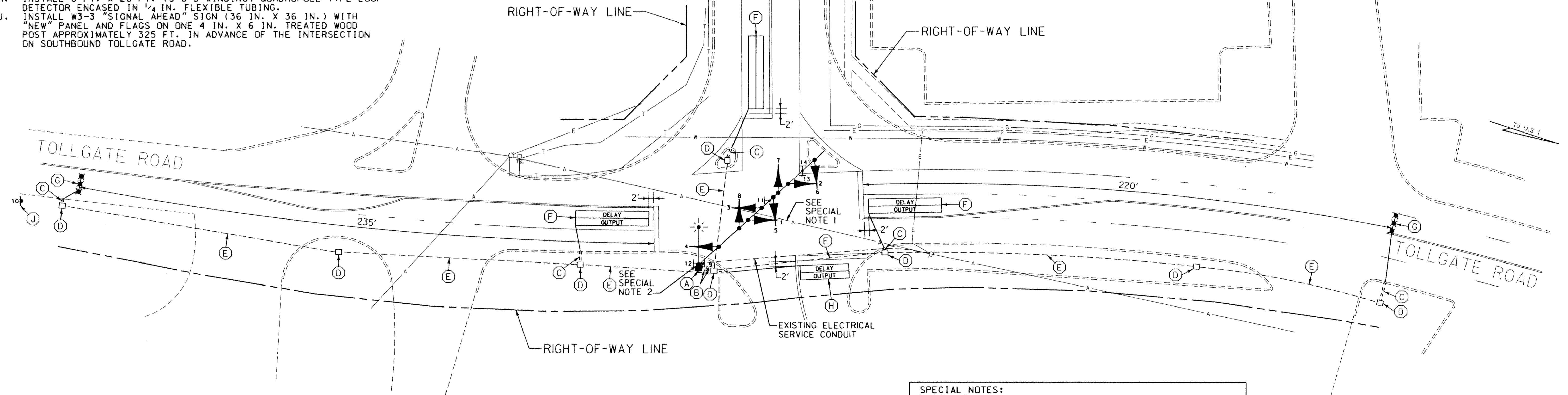


NEMA PHASING



PHASING NOTES:

- PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
- PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.



GENERAL NOTES

- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- THE CONTRACTOR SHALL NOT CUT MAST ARM AS INDICATED ON PLANS UNTIL MAST ARM POLE LOCATION IS FINALIZED.
- REFER TO SHEET 2 FOR DIMENSIONS OF SIGNAL EQUIPMENT WITHIN THE INTERSECTION.
- CONDUIT, HANDHOLES AND PAVEMENT MARKINGS SHOWN AS EXISTING ON PLAN ARE BEING INSTALLED BY ROADWAY CONTRACTOR FOR HARFORD COUNTY UNDER BID NO. 01-118.

SPECIAL NOTES:

- EXISTING OVERHEAD AERIAL LINE IS BEING RAISED BY BGE FORCES.
- THE CONTRACTOR SHALL INSTALL CONDUIT FROM METER PAN TO THE PREVIOUSLY INSTALLED ELECTRICAL SERVICE CONDUIT WHICH HAS BEEN CAPPED AND MARKED.

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES	
AERIAL CABLE	A
ELECTRICAL	E
TELEPHONE	T
GAS	G
SEWER	SS
STORM DRAIN	SD
WATER	W
CABLE TV	TV

**WR&A**  
Whitman, Requardt  
and Associates, LLP  
2315 Saint Paul Street  
Baltimore, Maryland 21218  
(410) 235-3450

REVISIONS	APPROVALS
	TEAM LEADER - <i>[Signature]</i> 8/30/01
	ASST. TRAFFIC ENGINEERING DESIGN DIVISION - <i>[Signature]</i>
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION - <i>[Signature]</i> 8/30/01
	DIRECTOR, TRAFFIC & SAFETY - <i>[Signature]</i> 8/31

**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION  
TRAFFIC SIGNALIZATION PLAN  
TOLLGATE ROAD AND BOULTON STREET

DRAWN BY: S. BLOSS	F.A.P. NO.	TS NO.	SHEET NO.
CHECKED BY: N. LEARY	S.H.A. NO. XX1065385	TS-4133	
SCALE: 1" = 20'	COUNTY: HARFORD	T.J.M.S. NO. E629	1 OF 2
DATE: 8/27/01	LOG MILE:		